

Product Data Sheet

Product Name: rac-Astaxanthin

Cat. No.: GC48413

Chemical Properties

Cas. No. 7542-45-2

SMILES CC(C(C(O)CC1(C)C=O)=C1/C=C/C(C)=C/C=C/C(C)=C/C=C/C(C)=C(C)/C=C/C=C(C)/C=C/C2=C(C)C(C(O)CC2(C)C)=O

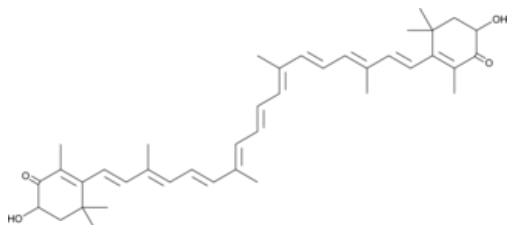
Formula C₄₀H₅₂O₄ M.Wt 596.9

Solubility Chloroform: 6 mg/ml, DMF: 0.5 mg/ml, DMSO: <130 µg/ml, Ethanol: <90 µg/ml, PBS (7.2): No apparent solubility
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

rac-Astaxanthin is a carotenoid pigment found primarily in marine animals including shrimp and salmon.¹ It is a potent lipid-soluble antioxidant.

1. Schroeder, W.A., and Johnson, E.A. Singlet oxygen and peroxy radicals regulate carotenoid biosynthesis in *Phaffia rhodozyma*. *The Journal of Biological Chemistry* 270:18374-18379 (1995)

Caution: Product has not been fully validated for medical applications. For research use only.

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